## IN THE CLAIMS

- 1. (Withdrawn) A method of initiating conifer embryogenic cultures comprising culturing explants using a media supplemented with biotin.
- 2. (Withdrawn) A culture media for initiating conifer embryogenic cultures supplemented with biotin.
- 3. (Withdrawn) The method of claim 1 wherein the media is supplemented with from 0.001 to 10 ppm biotin.
- 4. (Withdrawn) The method of claim 1 wherein the media is supplemented with about 0.001 to 1.0 ppm biotin.
- 5. (Withdrawn) The method of claim 1 wherein the media is supplemented with about 1.0 to 10 ppm biotin.
- 6. (Withdrawn) A method of initiating conifer embryogenic cultures comprising culturing explants using a media supplemented with folic acid.
- 7. (Withdrawn) A culture media for initiating conifer embryogenic cultures supplemented with folic acid.
- 8. (Withdrawn) The method of claim 6 wherein the media is supplemented with from 0.01 to 100 ppm folic acid.
- (Withdrawn) The method of claim 6 wherein the media is supplemented with from 0.01 to 1.0 ppm folic acid.
- 10. (Withdrawn) The method of claim 6 wherein the media is supplemented with about 1.0 to 10 ppm folic acid.
- 11. (Withdrawn) The method of claim 6 wherein the media is supplemented with about 10 to 100 ppm folic acid.
- 12. (Withdrawn) A method of initiating conifer embryogenic cultures comprising culturing explants using a media; and

maintaining the pH of the media at a desirable pH for the initiation of embryogenic cultures.

- (Withdrawn) The method of claim 12 wherein the desirable pH is between 4.5 and 6.
- 14. (Withdrawn) A method of initiating conifer embryogenic cultures comprising culturing explants using a media supplemented with a buffer suitable for maintaining a pH of 4.5-6.0.

- 15. (Withdrawn) A culture media for initiating embryogenic cultures supplemented with a buffer suitable for maintaining a pH of 4.5-6.0
- 16. (Withdrawn) The method of claim 14 wherein the buffer is MES.
- 17. (Withdrawn) The media of claim 15 wherein the buffer is MES.
- 18. (Withdrawn) The method of claim 16 wherein the concentration of MES is 10 to 1000 mg/l.
- 19. (Withdrawn) The method of claim 16 wherein the concentration of MES is 100 to 300 mg/l.
- 20. (Withdrawn) A method of initiating confer embryogenic cultures comprising culturing explants using a media supplemented with one or more gibberellin inhibitors.
- 21. (Currently amended) A culture medium for initiating embryogenic cultures comprising a gibberellin inhibitor and a component selected from the group consisting of conifer megagametophyte and or a conifer 2ygotic embryo.
- 22. (Withdrawn) The method of claim 20 wherein one or more gibberellin inhibitors are present in the initiation media at a concentration of 0.01 to 10 ppm.
- 23. (Withdrawn) The method of claim 20 wherein the gibberellin inhibitor is paclobutrazol.
- 24. (Previously presented) The medium of claim 21 wherein the gibberellin inhibitor is paclobutrazol:
- 25. (Withdrawn) The method of claim 23 wherein paclobutrazol is present in the initiation media at a concentration of 0.01 to 1.0 ppm.
- 26. (Withdrawn) The method of claim 23 wherein paclobutrazol is present in the initiation media at a concentration of 1.0 to 10 ppm.
- 27. (Withdrawn) A method of initiating conifer embryogenic cultures comprising:

the application of a solution containing a gibberellin inhibitor to explants prior to culturing; and

the subsequent culturing of the explant on or in a growth media.

- 28. (Withdrawn) The method of claim 27 wherein the gibberellin inhibitor is pactobutrazol.
- 29. (Withdrawn) A method of initiating conifer embryogenic cultures comprising culturing explants in a closed container wherein the free exchange of gases with the ambient atmosphere is fully prevented.
- 30. (Withdrawn) A method of initiating conifer embryogenic cultures comprising culturing explants in a closed container wherein the free exchange of gases with the ambient atmosphere is selectively reduced.

- 31. (Withdrawn) A method of growing previously initiated conifer embryogenic tissues, comprising growing such tissues using a media supplemented with biotin.
- 32. (Withdrawn) A media for growing previously initiated conifer embryogenic tissues supplemented with biotin.
- 33. (Withdrawn) The method of claim 32 wherein the media is supplemented with from 0.001 to 10 ppm biotin.
- 34. (Withdrawn) The method of claim 31 wherein the media is supplemented with about 0.001 to 1.0 ppm biotin.
- 35. (Withdrawn) The method of claim 31 wherein the media is supplemented with about 1.0 to 10 ppm biotin.
- 36. (Withdrawn) A method of growing previously initiated conifer embryogenic tissues, comprising growing such tissues using a media supplemented with folic acid.
- 37. (Withdrawn) A media for growing previously initiated conifer embryogenic rissues supplemented with folic acid.
- 38. (Withdrawn) The method of claim 36 wherein the media is supplemented with from 0.01 to 10 ppm folic acid.
- 39. (Withdrawn) The method of claim 36 wherein the media is supplemented with from 0.01 to 1.0 ppm folic acid.
- 40. (Withdrawn) The method of claim 36 wherein the media is supplemented with about 1.0 to 10 ppm folic acid.
- 41. (Withdrawn) A method of growing previously initiated conifer embryogenic tissues wherein the pH of the media is maintained at a desirable pH for the growth of embryogenic tissues.
- 42. (Withdrawn) The method of claim 41 wherein the desirable media pH is between 4.5 and 6.
- 43. (Withdrawn) A method of growing previously initiated conifer embryogenic tissues, comprising growing such tissues using a media supplemented with a buffer suitable for maintaining a pH between 4.5 and 6.
- 44. (Withdrawn) A media for growing previously initiated conifer embryogenic tissues supplemented with a buffer suitable for maintaining a pH between 4.5 and 6.
- 45. (Withdrawn) The method of claim 43 wherein the buffer is MES.
- 46. (Withdrawn) The method of claim 45 wherein the concentration of MES is 10 to 1000 mg/l.
- 47. (Withdrawn) The method of claim 45 wherein the concentration of MES is 100 to 300 mg/l.

- 48. (Withdrawn) A method of growing previously initiated conifer embryogenic tissues, comprising growing such tissues using a media supplemented with one or more gibberellin inhibitors.
- 49. (Previously presented) A medium for growing previously initiated conifer embryogenic tissues comprising a gibberellin inhibitor and a conifer somatic embryo.
- 50. (Withdrawn) The method of claim 48 wherein one or more gibberellin inhibitors are present in the media at a concentration of 0.01 to 10 ppm.
- 51. (Withdrawn) The method of claim 48 wherein one of the gibberellin inhibitors is paclobutrazol.
- 52. (Withdrawn) The method of claim 51 wherein paclobutrazol is present in the media at a concentration of 0.01 to 10 ppm.
- 53. (Withdrawn) The method of claim 51 wherein paclobutrazol is present in the media at a concentration of 0.01 to 1.0 ppm.
- 54. (Withdrawn) The method of claim 51 wherein paclobutrazol is present in the media at a concentration of 1.0 to 10 ppm.
- (Withdrawn) A method of growing a previously initiated conifer embryogenic culture comprising culturing such tissues in a closed container wherein the free exchange of gases with the ambient atmosphere is fully prevented.
- 56. (Withdrawn) A method of growing a previously initiated conifer embryogenic culture composing culturing such tissues in a closed container wherein the free exchange of gases with the ambient atmosphere is selectively reduced.
- 57. (Withdrawn) A method of growing a previously initiated conifer embryogenic culture wherein the atmospheric pressure of the culture vessel is maintained above 1 atmosphere for the majority of the culturing period.
- 58. (Withdrawn) The method of claim 57 wherein the pressure in the culture vessel is about 1.1 to 2 atmospheres.
- (Withdrawn) A method of improving culture capture in conifer tissue, comprising growing new initiates using a media supplemented with abscisic acid.
- (Withdrawn) A media for improving culture capture in conifer tissue supplemented with abscisic acid.

- 61. (Withdrawn) The method of claim 59 wherein the abscisic acid is present in a concentration between 0.1 to 100 mg/l.
- 62. (Withdrawn) The method of claim 59 wherein the abscisic acid is present in a concentration between 0.1 to 1.0mg/l.
- 63. (Withdrawn) The method of claim 59 wherein the abscisic acid is present in a concentration between 1.0 to 10mg/l.
- 64. (Withdrawn) The method of claim 59 wherein the abscisic acid is present in a concentration between 10 to 100 mg/l.
- 65. (Withdrawn) The method of claim 31 further comprising:
  growing the embryogenic tissue until the tissues increase in mass; and
  transferring the enlarged tissues to a liquid multiplication media.
- 66. (Withdrawn) The method of claim 65 wherein the tissue attains a mass of at least 100 mg prior to being transferred to a liquid multiplication media.
- 67. (Withdrawn) The method of claim 65 wherein the tissue attains a mass of at least 200 mg prior to being transferred to a liquid multiplication media.
- 68. (Withdrawn) The method of claim 36 further comprising:
  growing the embryogenic tissue until the tissues increase in mass; and
  transferring the enlarged tissues to a liquid multiplication media.
- 69. (Withdrawn) The method of claim 68 wherein the tissue attains a mass of at least 100 mg prior to being transferred to a liquid multiplication media.
- 70. (Withdrawn) The method of claim 68 wherein the tissue attains a mass of at least 200 mg prior to being transferred to a liquid multiplication media.
- 71. (Withdrawn) The method of claim 41 further comprising:
  growing the embryogenic tissue until the tissues increase in mass; and
  transferring the enlarged tissues to a liquid multiplication media.
- 72. (Withdrawn) The method of claim 71 wherein the tissue attains a mass of at least 100 mg prior to being transferred to a liquid multiplication media.
- 73. (Withdrawn) The method of claim 71 wherein the tissue attains a mass of at least 200 mg prior to being transferred to a liquid multiplication media.
- 74. (Withdrawn) The method of claim 45 further comprising:
  growing the embryogenic tissue until the tissues increase in mass; and

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transferring the enlarged tissues to a liquid multiplication media.

- 75. (Withdrawn) The method of claim 74 wherein the tissue attains a mass of at least 100 mg prior to being transferred to a liquid multiplication media.
- 76. (Withdrawn) The method of claim 74 wherein the tissue attains a mass of at least 200 mg prior to being transferred to a liquid multiplication media.
- 77. (Withdrawn) The method of claim 48 further comprising:
  growing the embryogenic tissue until the tissues increase in mass; and
  transferring the enlarged tissues to a liquid multiplication media.
- 78. (Withdrawn) The method of claim 77 wherein the tissue attains a mass of at least 100 mg prior to being transferred to a liquid multiplication media.
- 79. (Withdrawn) The method of claim 77 wherein the tissue attains a mass of at least 200 mg prior to being transferred to a liquid multiplication media.
- 80. (Withdrawn) The method of claim 51 further comprising: growing the embryogenic tissue until the tissues increase in mass; and transferring the enlarged tissues to a liquid multiplication media.
- 81. (Withdrawn) The method of claim 80 wherein the tissue attains a mass of at least 100 mg prior to being transferred to a liquid multiplication media.
- 82. (Withdrawn) The method of claim 80 wherein the tissue attains a mass of at least 200 mg prior to being transferred to a liquid multiplication media.
- 83. (Withdrawn) The method of claim 55 further comprising:
  growing the embryogenic tissue until the tissues increase in mass; and
  transferring the enlarged tissues to a liquid multiplication media.
- 84. (Withdrawn) The method of claim 83 wherein the tissue attains a mass of at least 100 mg prior to being transferred to a liquid multiplication media.
- 85. (Withdrawn) The method of claim 83 wherein the tissue attains a mass of at least 200 mg prior to being transferred to a liquid multiplication media.
- 86. (Withdrawn) The method of claim 56 further comprising: growing the embryogenic tissue until the tissues increase in mass; and transferring the enlarged tissues to a liquid multiplication media.
- 87. (Withdrawn) The method of claim 86 wherein the tissue arrains a mass of at least 100 mg prior to being transferred to a liquid multiplication media.

- 88. (Withdrawn) The method of claim 86 wherein the tissue attains a mass of at least 200 mg prior to being transferred to a liquid multiplication media.
- 89. (Withdrawn) The method of claim 57 further comprising:
  growing the embryogenic tissue until the tissues increase in mass; and
  transferring the enlarged tissues to a liquid multiplication media.
- 90. (Withdrawn) The method of claim 89 wherein the tissue attains a mass of at least 100 mg prior to being transferred to a liquid multiplication media.
- 91. (Withdrawn) The method of claim 89 wherein the tissue attains a mass of at least 200 mg prior to being transferred to a liquid multiplication media.
- 92. (Withdrawn) The method of claim 59 further comprising: growing the embryogenic tissue until the tissues increase in mass; and transferring the enlarged tissues to a liquid multiplication media.
- 93. (Withdrawn) The method of claim 92 wherein the tissue attains a mass of at least 100 mg prior to being transferred to a liquid multiplication media.
- 94. (Withdrawn) The method of claim 92 wherein the tissue attains a mass of at least 200 mg prior to being transferred to a liquid multiplication media.
- 95. (Previously presented) The medium of claim 21 wherein the gibberellin inhibitor is present at a concentration of 0.01 to 10 ppm.
- 96. (Previously presented) The medium of claim 49 wherein the gibberellin inhibitor is paclobutrazol.
- 97. (Previously presented) The medium of claim 49 wherein the gibberellin inhibitor is present at a concentration of 0.01 to 10 ppm.